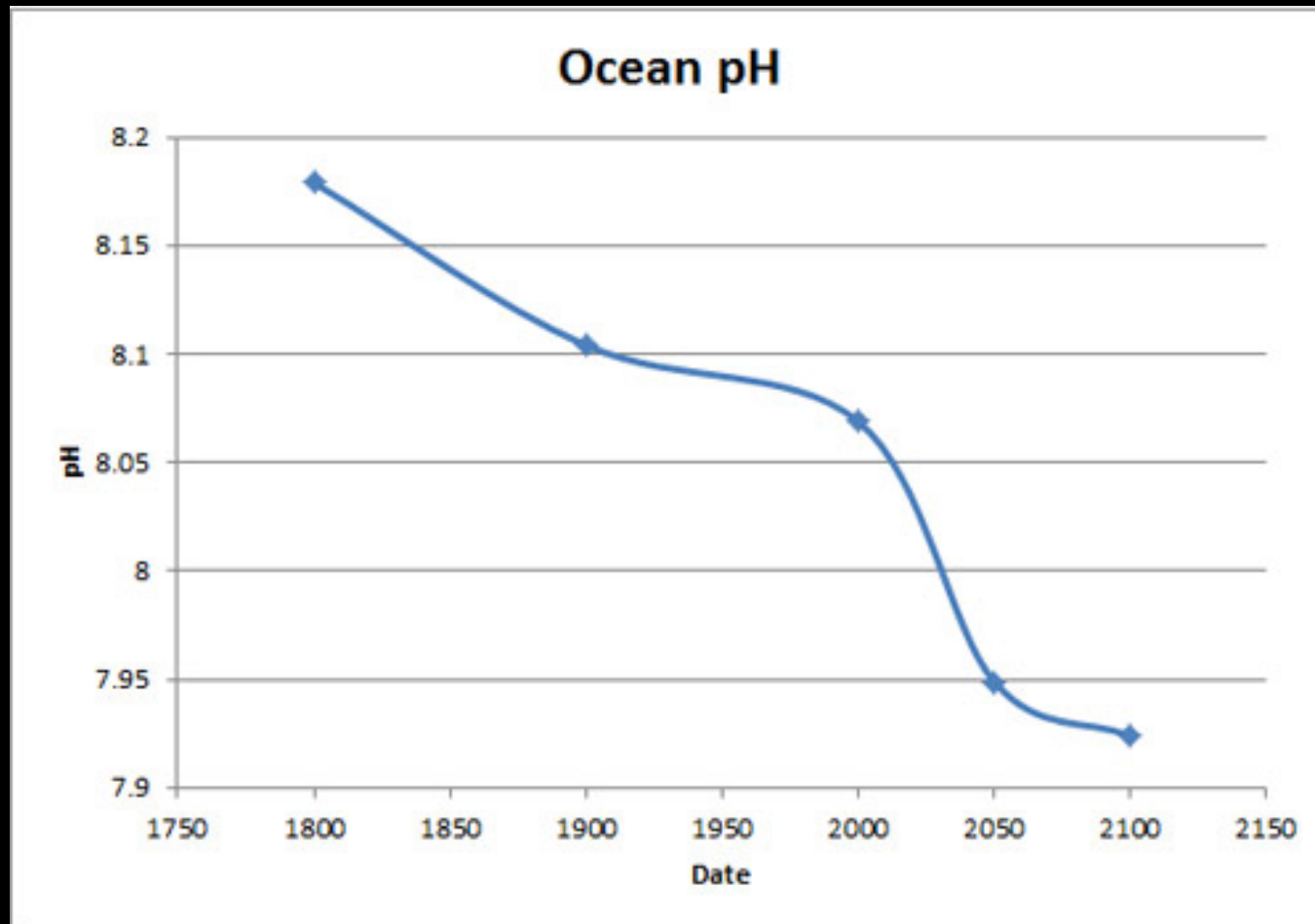


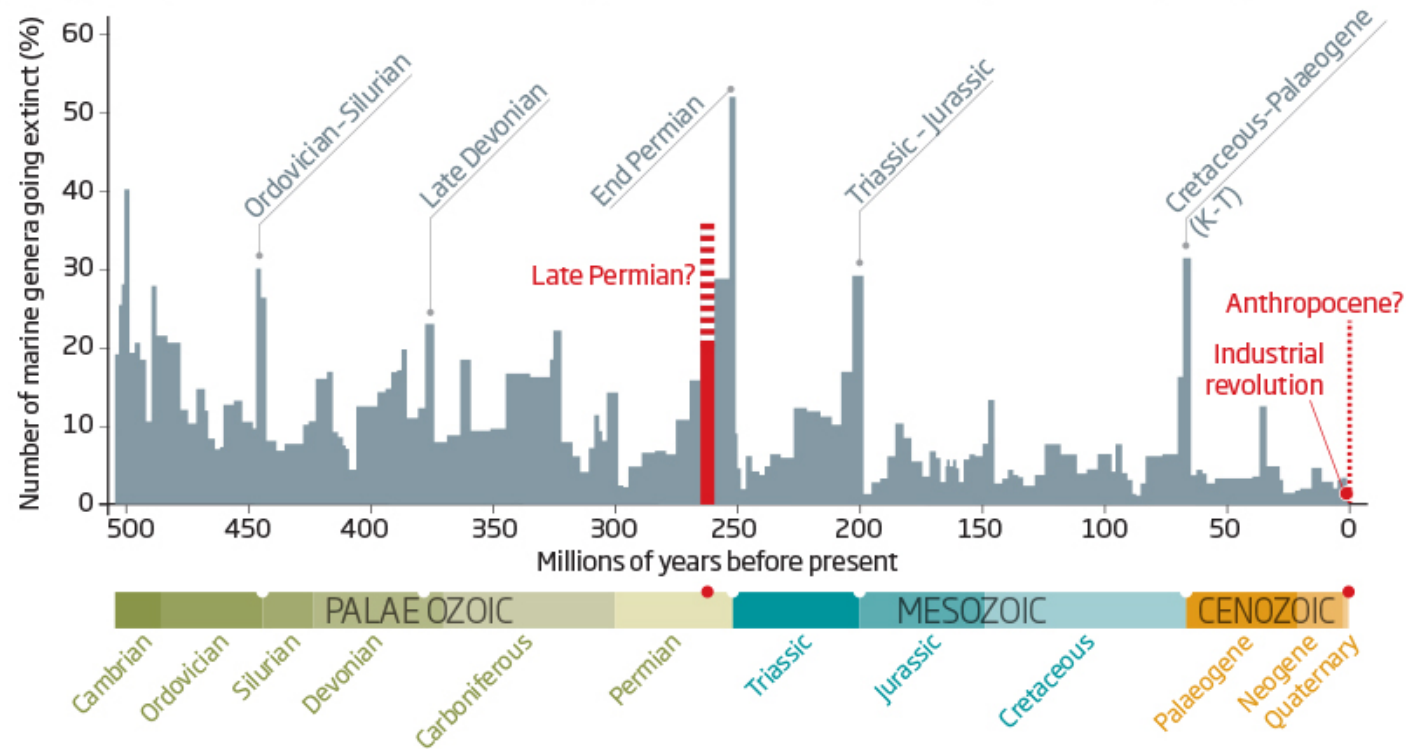
Sýrustig úthafanna



Útpurrkunarskeið

Could five big extinctions become six... or seven?

It was thought that Earth had suffered five global extinction events. Some evidence now points to a sixth around 260 million years ago. Many believe a seventh has been under way since the industrial revolution began a mere 250 years ago



The scientific consensus in the [IPCC Fourth Assessment Report](#) is that

"Anthropogenic warming could lead to some impacts that are abrupt or irreversible, depending upon the rate and magnitude of the climate change."

"There is medium confidence that approximately 20-30% of species assessed so far are likely to be at increased risk of extinction if increases in global average warming exceed 1.5-2.5 °C (relative to 1980-1999). As global average temperature increase exceeds about 3.5 °C, model projections suggest significant extinctions (40-70% of species assessed) around the globe."

S.L. Pimm o.fl.: „The biodiversity of species and their rates of extinction, distribution, and protection“, *Science* 30. maí 2014: Vol. 344 no. 6187

The screenshot shows the Science journal website interface. At the top, there is a navigation bar with the Science logo, AAAS.ORG, FEEDBACK, HELP, and LIBRARIANS. Below this is a search bar and a menu with options like NEWS, SCIENCE JOURNALS, CAREERS, MULTIMEDIA, and COLLECTIONS. The article title is prominently displayed in the center, along with the authors' names: S. L. Pimm, C. N. Jenkins, R. Abell, T. M. Brooks, J. L. Gittleman, L. N. Joppa, P. H. Raven, C. M. Roberts, and J. O. Sexton. The page includes sections for Article Views, Abstract, Full Text, and Article Tools. The background of the article text is highlighted in a light blue color.

The figure consists of four world maps labeled A, B, C, and D. Map A shows the distribution of all species, with high biodiversity concentrated in tropical regions. Map B shows the distribution of 4964 species with smaller than the median geographical range size, showing a similar but more concentrated pattern. Map C shows the distribution of 1308 species assessed as threatened, with high concentrations in tropical regions. Map D shows the distribution of 1080 threatened species with less than the median range size, showing a strong geographical focus on where local conservation actions can have the greatest global impact. The maps use a color scale from red (high biodiversity) to blue (low biodiversity).

Different visualizations of species biodiversity. (A) The distributions of 9927 bird species. (B) The 4964 species with smaller than the median geographical range size. (C) The 1308 species assessed as threatened with a high risk of extinction by BirdLife International for the Red List of Threatened Species of the International Union for Conservation of Nature. (D) The 1080 threatened species with less than the median range size. (D) provides a strong geographical focus on where local conservation actions can have the greatest global impact. Additional biodiversity maps are available at www.biodiversitymapping.org.

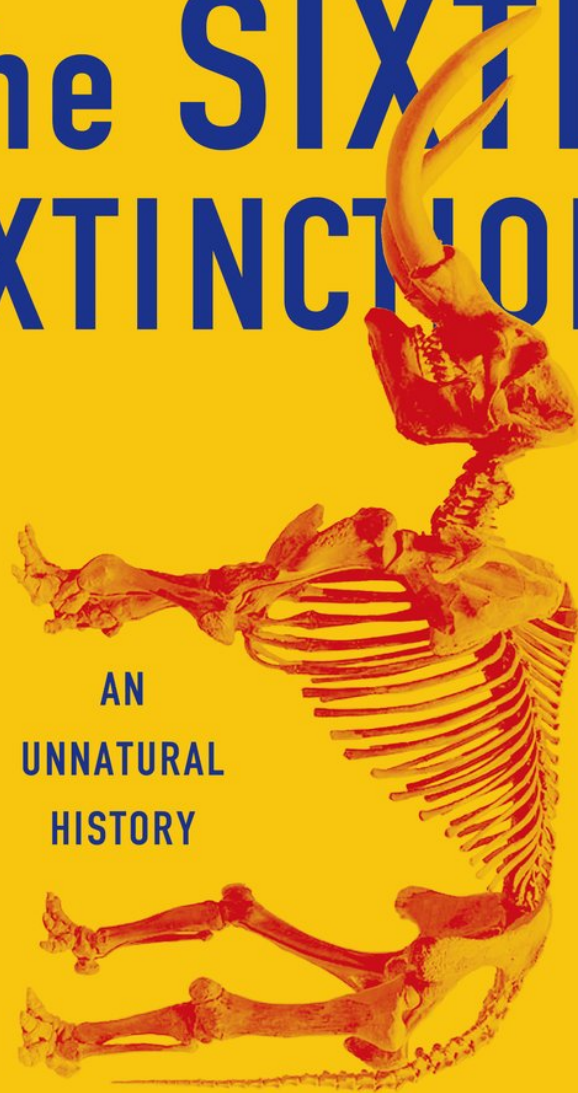
Advances

Recent studies have clarified where the most vulnerable species live, where and how humanity changes the planet, and how this drives extinctions. These data are increasingly accessible, bringing greater transparency to science and governance. Taxonomic catalogs of plants, terrestrial vertebrates, freshwater fish, and some marine taxa are sufficient to assess their status and the limitations of our knowledge. Most species are undescribed, however. The species we know best have large geographical ranges and are often common within them. Most known species have small ranges, however, and such species are typically newer discoveries. The numbers of known species with very small ranges are increasing quickly, even in well-known taxa. They are geographically concentrated and are disproportionately likely to be threatened or already extinct. We expect unknown species to share these characteristics. Current rates of extinction are about 1000 times the background rate of extinction. These are higher than previously estimated and likely still underestimated. Future rates will depend on many factors and are poised to increase. Finally, although there has been rapid progress in developing protected areas, such efforts are not ecologically representative, nor do they optimally protect biodiversity.

Outlook

Progress on assessing biodiversity will emerge from continued expansion of the many recently created online databases, combining them with new global data sources on changing land and ocean use and with increasingly crowdsourced data on species' distributions. Examples of practical conservation that follow from using combined data in Colombia and Brazil can be found at www.savingspecies.org and www.youtube.com/watch?v=R3zjeIW2NVk.

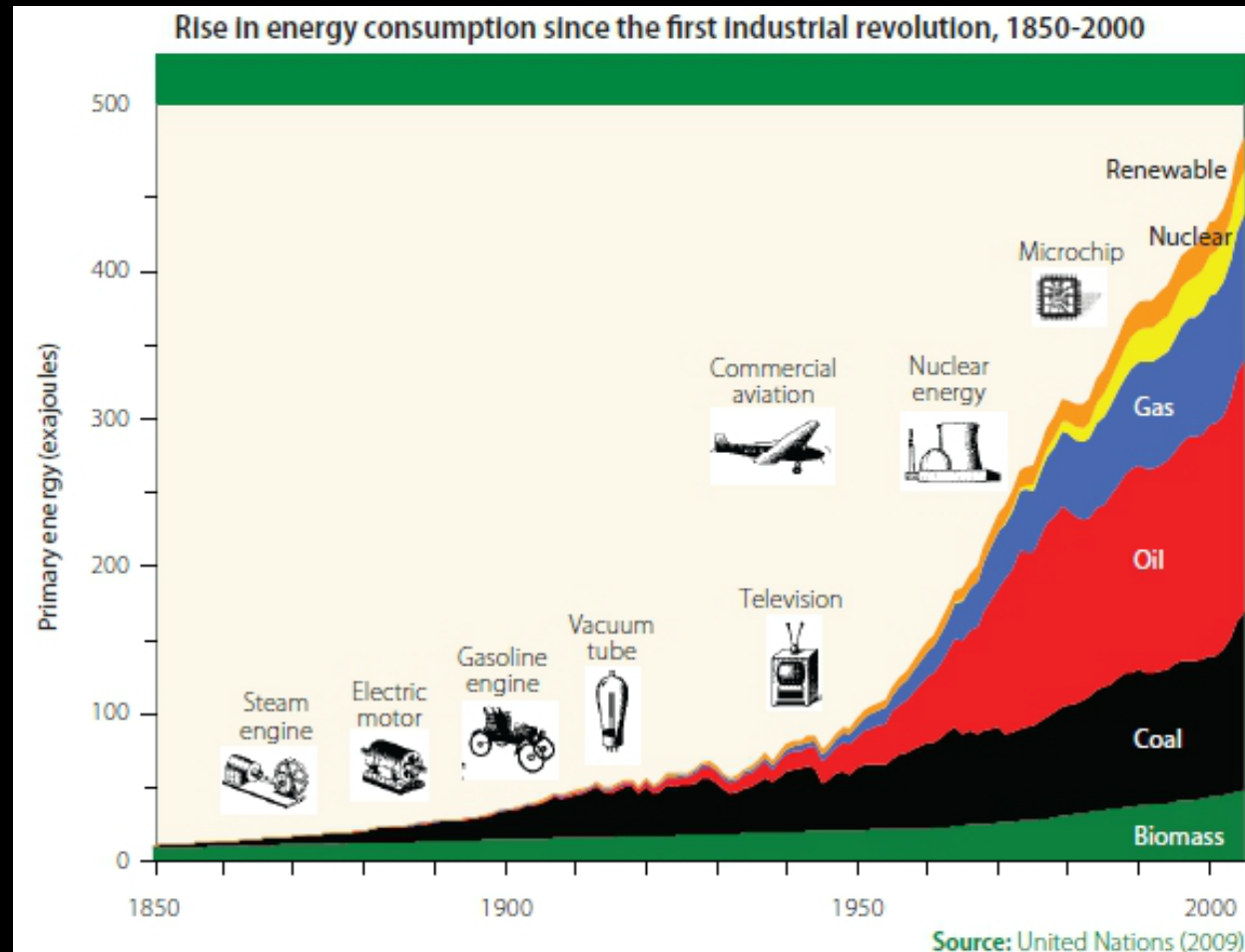
The **SIXTH** EXTINCTION



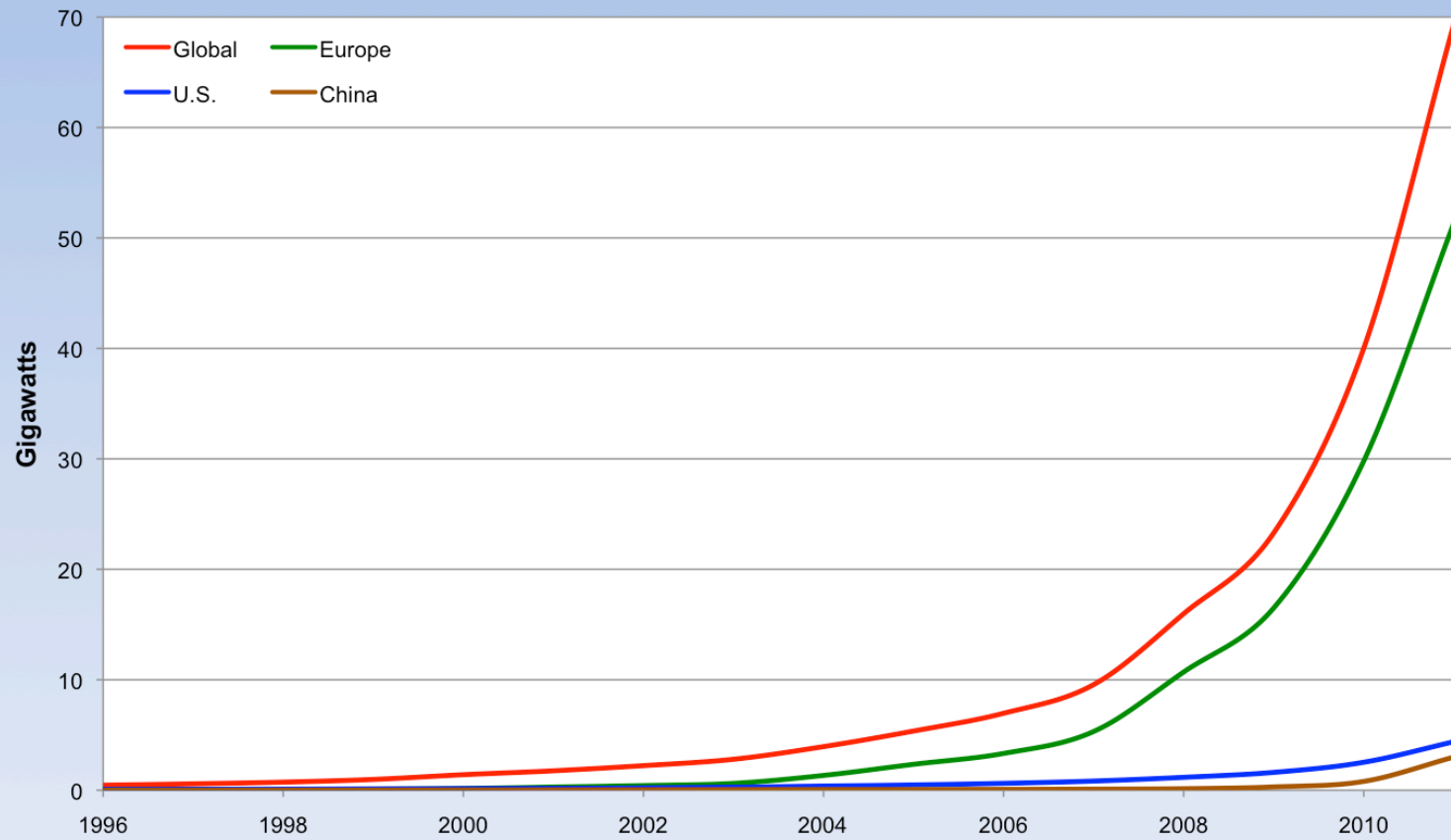
AN
UNNATURAL
HISTORY

ELIZABETH KOLBERT Author of *FIELD NOTES
FROM A CATASTROPHE*

Orkunotkun tvöfaldast á hverjum 39 árum



Solar PV Capacity 1996-2011



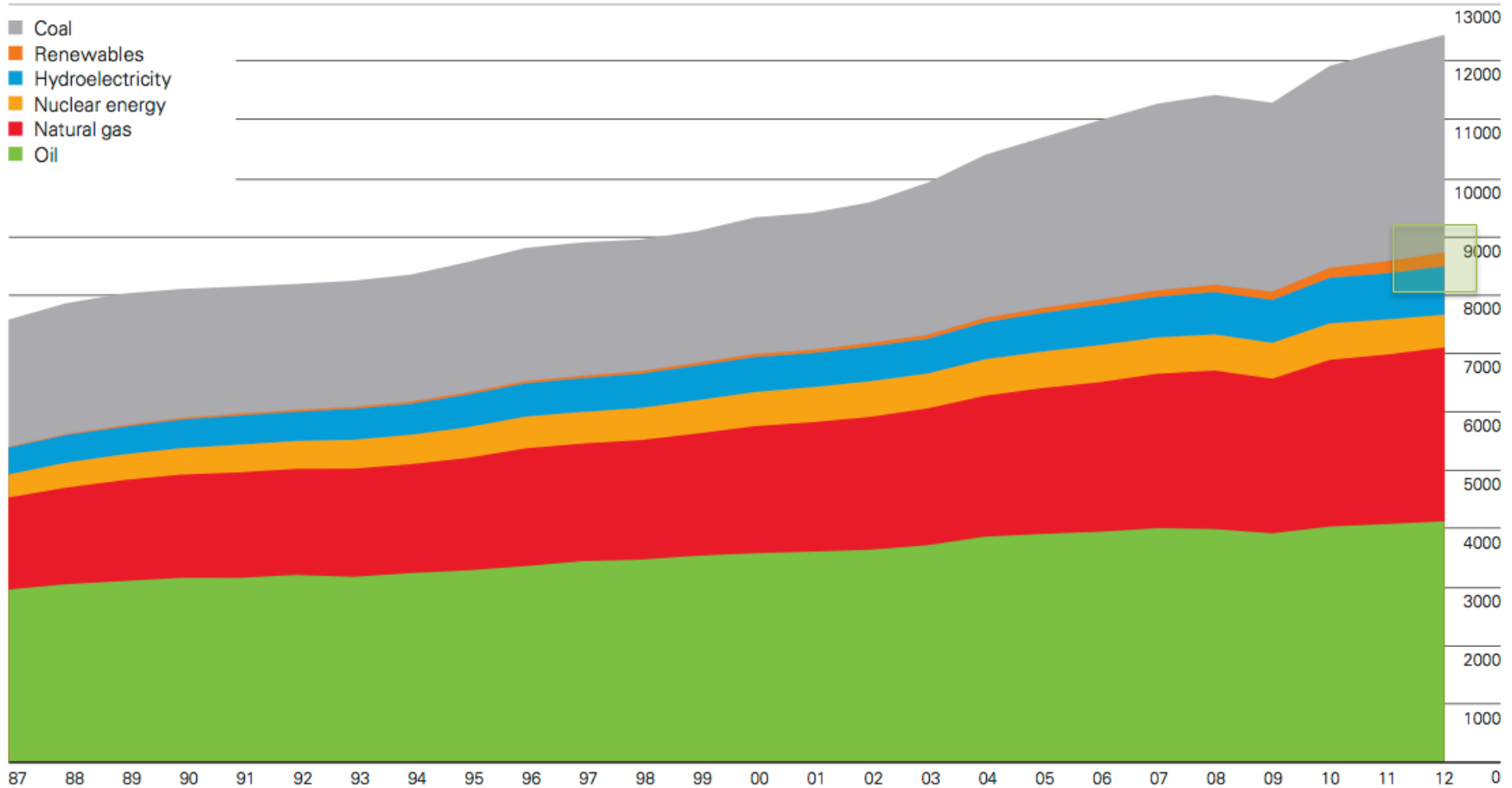
Data source: 2012 BP Statistical Review of World Energy

© Robert Rapier -- ConsumerEnergyReport.com



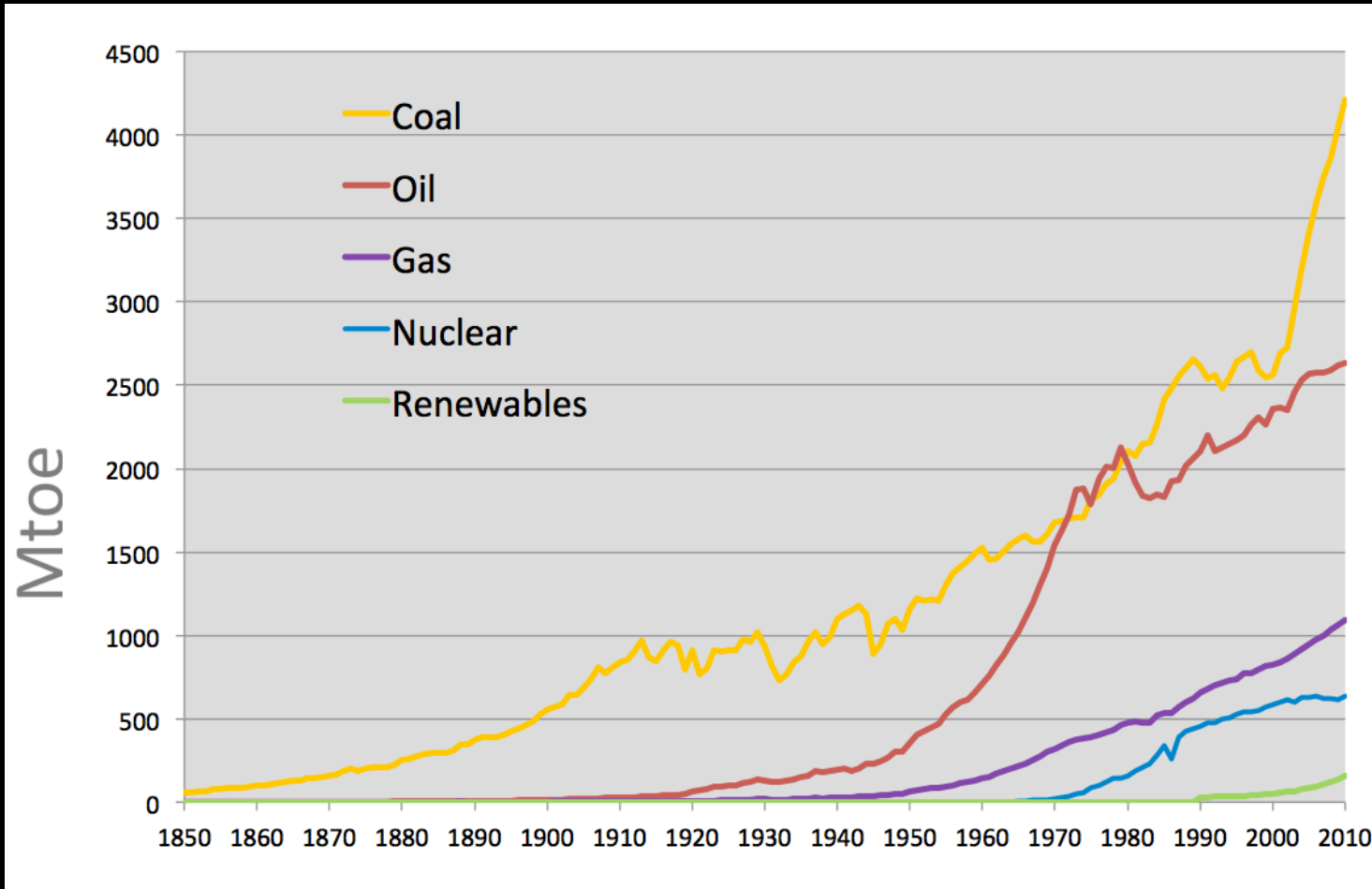
World consumption

Million tonnes oil equivalent

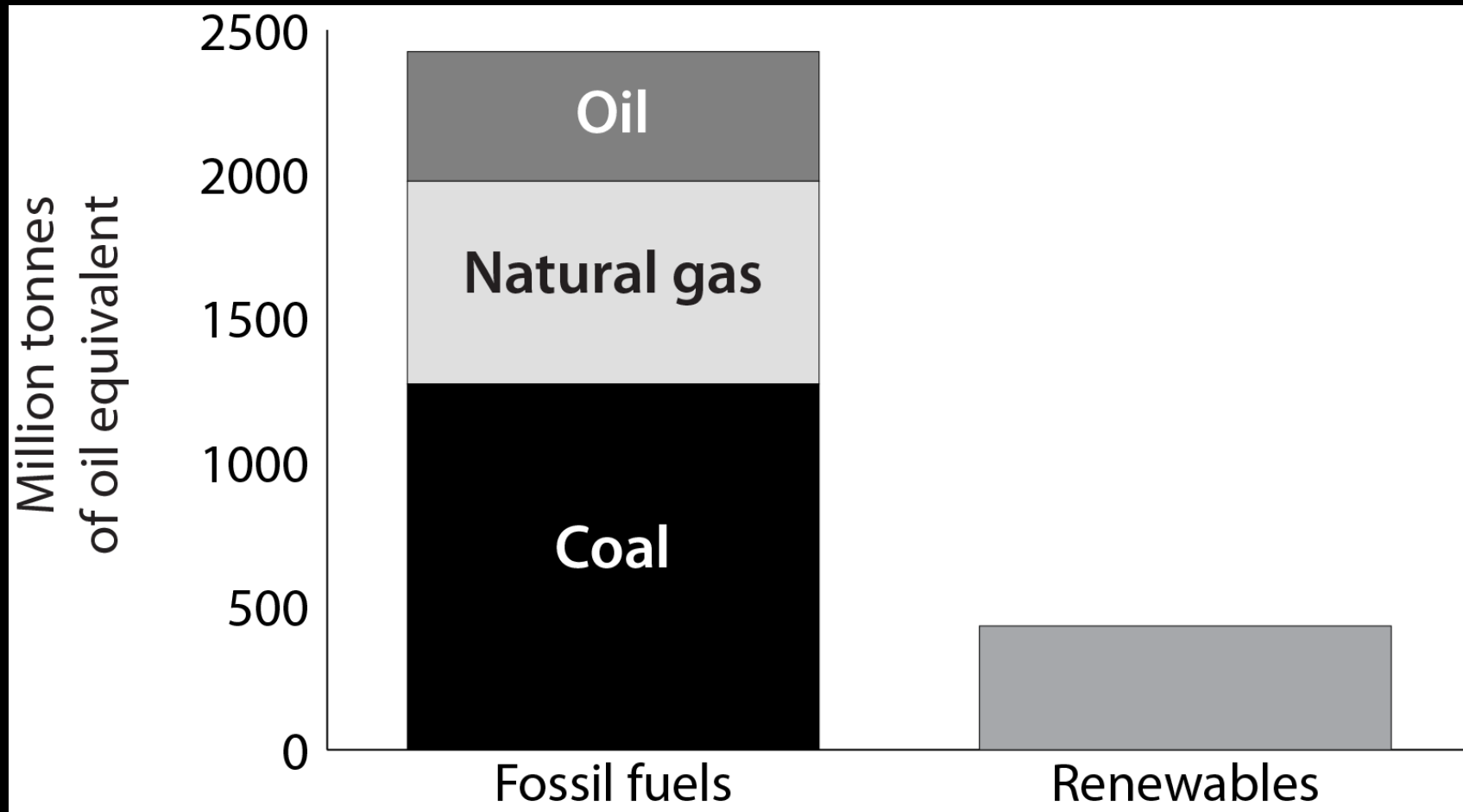


World primary energy consumption grew by a below-average 1.8% in 2012. Growth was below average in all regions except Africa. Oil remains the world's leading fuel, accounting for 33.1% of global energy consumption, but this figure is the lowest share on record and oil has lost market share for 13 years in a row. Hydroelectric output and other renewables in power generation both reached record shares of global primary energy consumption (6.7% and 1.9%, respectively).

Endurnýjanlegir orkugjafar



Nýir orkugjafar 2000–2011

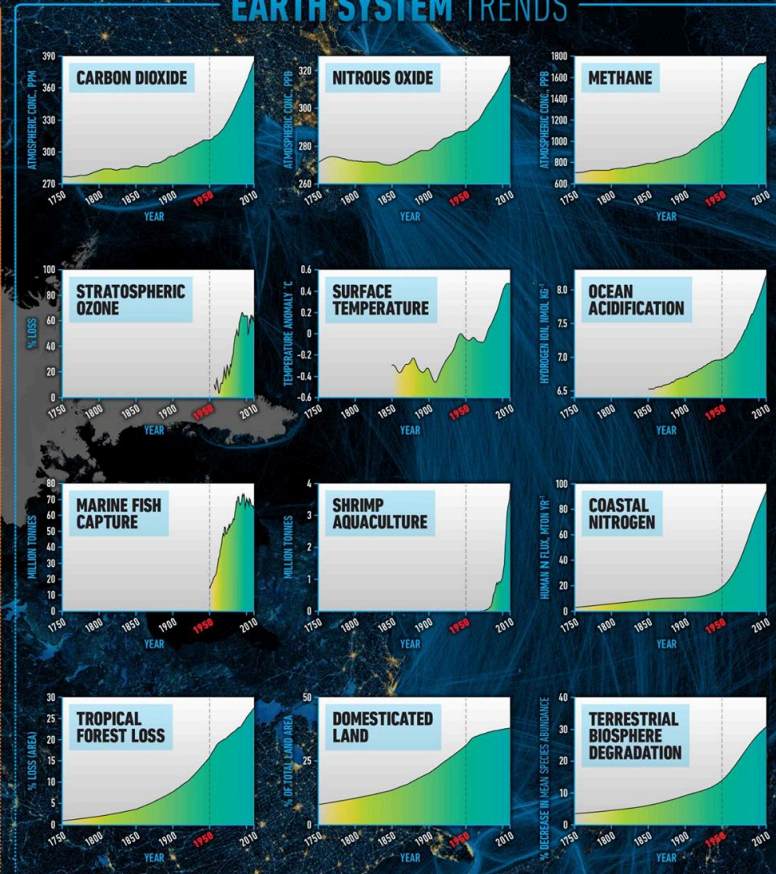


THE GREAT ACCELERATION

SOCIO-ECONOMIC TRENDS



EARTH SYSTEM TRENDS



REFERENCE: Steffen, W., W. Broadgate, L. Deutsch, O. Gaffney and C. Ludwig (2014). The Trajectory of the Anthropocene: the Great Acceleration. Submitted to The Anthropocene Review
 MAP & DESIGN: Felix Pauhoft-Deschênes / Globaia

Getur Ísland hrifið okkur með sér?



Atvinnulífið og umhverfisverndarumræðan

 **Andri Snær Magnason**
August 26 · Reykjavík · 🌐

Fjórir milljarðar í beina aðstoð til PCC á Húsavík til að „skapa“ 120 störf, samt næst ekki einu sinni að manna byggingu virkjunar sem spillir Peistareykjum, þar er 30 manna flokkur frá Póllandi. Það á að bora heil jarðgöng fyrir fyrirtækið, skuldsetja sveitarfélagið og byggja höfn, og Landsnet er að leggja rándýra línu að Bakka - sem PCC greiðir ekki nema að litlu leyti, kostnaðurinn er borinn af almenningi og tjónið á náttúrufergurðinni við Bakka er að engu metið. Á síðustu árum hafa mörg þúsund störf orðið til vegna nýsköpunar og 7000 störf orðið til í ferðaþjónustu á Íslandi - en samt hafa menn varla tímt að byggja svo mikið sem salerni eða strengja band milli staura til að halda mönnum innan stíga. Fyrir fjóra milljarða - hefði ekki verið hægt að skapa 5 störf á 20 stöðum í okkar 190.000 manna vinnumarkaði? Er ekki kominn tími til að menn átti sig á því að stóriðjustefnan er dauð og gjaldþrota.

 **Ríkisaðstoð: Tæpra 4 milljarða króna fjárfestingaraðstoð til PCC samþykkt**
Eftirlitsstofnun EFTA, ESA, samþykkti í dag ríkisaðstoð til fyrirtækisins PCC BakkiSilicon hf. vegna byggingar kísilmálmverksmiðju á Bakka við Húsavík.

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 **Ólafur Páll Jónsson** skrifar


Spurningin sem er til umræðu er ekki flókin: Eru virkjanamannvirki afturkræf? Og henni má svara með einföldum hætti, ýmist „Já“ eða „Nei“. Já, vegna þess að það er hægt, í einhverjum skilningi, að losa sig við virkjanir eins og önnur mannvirki. Nei, vegna þess að virkjanir skilja yfirleitt eftir sig óafmáanleg spor í náttúru og samfélagi. Ef við viljum svara spurningunni með ítarlegri hætti, þá sjáum fljótlega að málin flækjast og skoða verður virkjanir í senn sem efnisleg, félagsleg og vistfræðileg fyrirbæri sem hafa auk þess flókin fagurfræðileg áhrif á landslag og náttúru.

„Að reisa virkjun er félagsleg framkvæmd. Að fjarlægja virkjun er líka félagsleg framkvæmd.“

Félagslegt samhengi


VISITORS THROUGH KEFLAVÍK AIRPORT

By Nationality				Increase/decrease (%)	
	2012	2013	2014	12/13	13/14
Canada	18,760	23,970	38,790	27.8	61.8
China	14,036	17,597	26,037	25.4	48.0
Denmark	40,906	43,119	48,237	5.4	11.9
Finland	13,684	13,799	15,415	0.8	11.7
France	41,570	48,313	58,293	16.2	20.7
Germany	65,179	75,814	85,915	16.3	13.3
Italy	13,841	16,213	19,870	17.1	22.6
Japan	10,343	12,363	13,340	19.5	7.9
Netherlands	21,305	22,820	26,222	7.1	14.9
Norway	51,534	52,707	53,647	2.3	1.8
Spain	15,278	17,017	20,932	11.4	23.0
Sweden	35,601	35,491	40,992	-0.3	15.5
Switzerland	12,838	14,307	19,315	11.4	35.0
UK	94,599	137,108	180,503	44.9	31.7
USA	95,026	119,712	152,104	26.0	27.1
Other	102,421	130,666	169,569	27.6	29.8
Total	646,921	781,016	969,181	20.7	24.1
By Market Area					
Nordic countries	141,725	145,116	158,291	2.4	9.1
UK	94,599	137,108	180,503	44.9	31.7
Central/S-Europe	170,011	194,484	230,547	14.4	18.5
N-America	113,786	143,682	190,894	26.3	32.9
Other	126,800	160,626	208,946	26.7	30.1
Total	646,921	781,016	969,181	20.7	24.1

 **Your flight:**


From: Berlin (DE), BER to: Reykjavik (IS), KEF, Roundtrip, Economy Class, ca. 4,800 km, 1 traveler

CO₂ amount: 0.954 t

 **Your flight:**

From: New York (US), JFK to: Reykjavik (IS), KEF, Roundtrip, Economy Class, ca. 8,300 km, 1 traveler

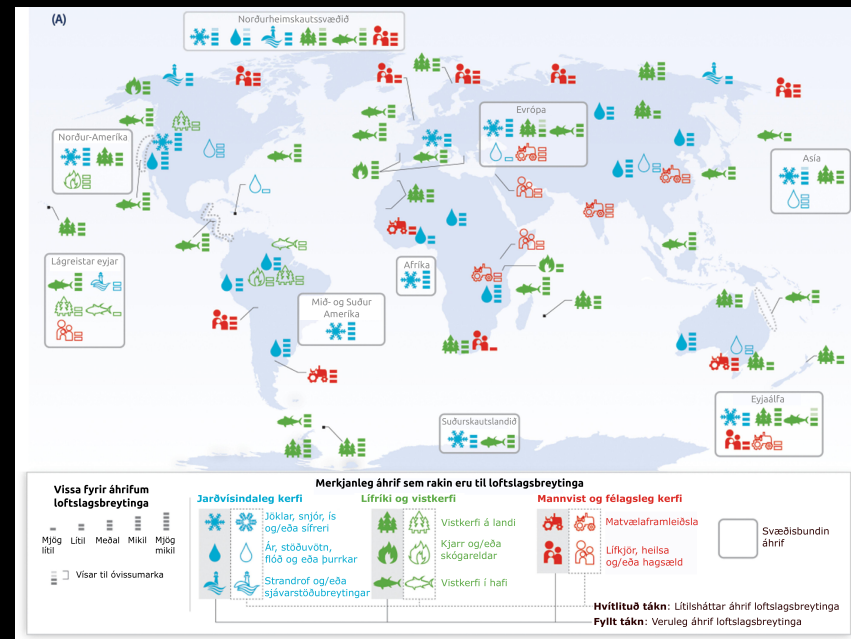
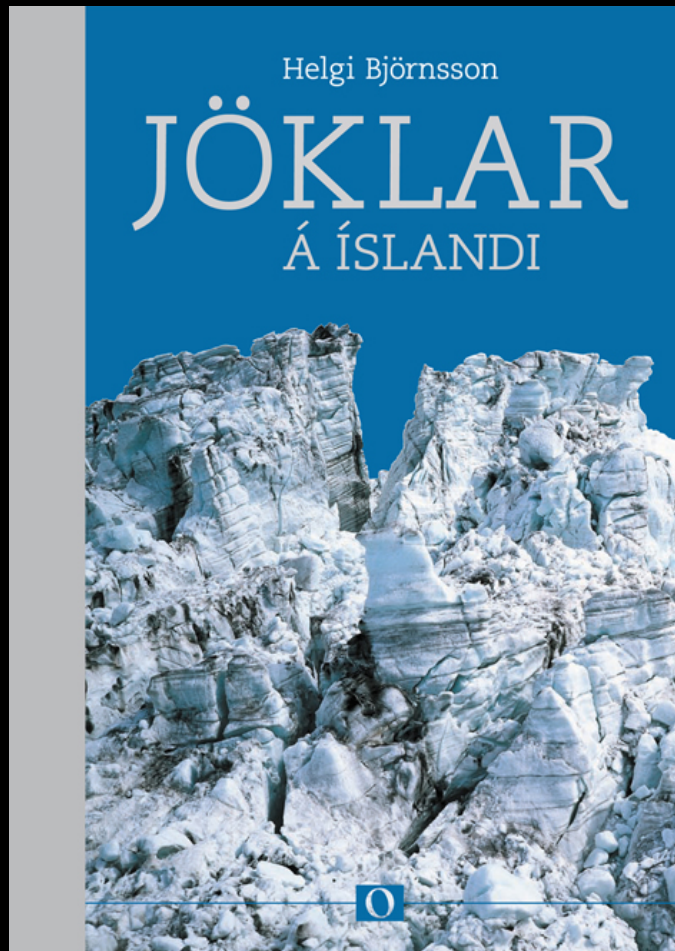
CO₂ amount: 1.558 t

 **Your flight:**

From: Beijing (CN), PEK to: Reykjavik (IS), KEF, Roundtrip, Economy Class, ca. 15,800 km, 1 traveler

CO₂ amount: 2.967 t

Hvað er verið að vernda?



Er hægt að koma á samræðu?

